Circles WS Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per \_\_\_\_\_\_

1-4 Find the center and radius of each circle. Write the standard form of each equation.

(2,3)

1. 2. 3. 4.

(0,1)

(4,2)

(1,2)

(1,2)

(1,0)

(2,1)

(0,1)

5-7 Write the standard form of the equation and the general from of the equation of each circle of radius r and center (h,k). Also graph each circle on a piece of graph paper.

5. r=1; (h,k)=(1,-1) 6. r=2; (h,k)=(0,2) 7. r=5; (h,k)=(4,-3)

8-13 Determine if the conic is a parabola or a circle. Put the equation into standard form. Find the following for each conic; parabola: vertex, focus, directrix, and LR points, circle: center, radius.

8. 9. 10.

11. 12. 13.